

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work: Improvements to roads and drains at Bhuvaneshwari Nagara ward No:14 in Bagalagunte

				Est. Cost Rs			50.00	Lakhs	
Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.141/4.19.1 PW, P & IWTD -SR 2015-16)								
		Cum	1	120.00	0.45	0.45	24.30		
							24.30	83.16	2021.00
	Basic Rate	77.00							
	Add Area Weightage 8%	6.16							
	Total	83.16							
2	Removing B.S.Slab of drain and stacking etc. complete Page No. 25/ Item No. 5.32/ PWD SR 2015-16								
		Sqm	1	120.00	1.35		162.00		
							97.20		
							64.80	63.72	4129.00
	Basic Rate	59.00							
	Add Area Weightage 8%	1.72							
	Total	63.72							
3	KSRRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180 kgs with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No: KBS 4.1, 4.2 (P.12/L.4.3) PWD - SR 2015-16)								
		Cum	1	120.00	0.45	0.15	8.10		
	Basic Rate	4695.00					8.10	5070.60	41072.00
	Add Area Weightage 8%	375.60							
	Total	5070.60							
4	KSRRB 4-1.7: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC Cement @220 kgs with 20 mm and down size graded granite metal coarse aggregates @ 0.84 cum and fine aggregates @0.56 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well comated, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per , Specification NO KBS 4.1,4.2 Page No 13/ Item No 4.7/PWD SR 2015-16								

Description of Item		Unit	No	L	B	D	Qty	Rate	Amount
		Sqm	2	120.00	0.20	0.10	4.80		
	Basic Rate	5085.00					4.80	5491.80	26361.00
	Add Area Weightage 8%	406.80							
	Total	5491.80							
5	Refixing stone slabs of drains and pointing in CM 1:3 etc complete Page No. 25/ Item No.5.33/ PWD SR 2015-16								
		Sqm	Qty Vide Item No 2				97.20	78.84	7663.00
	Basic Rate	73.00							
	Add Area Weightage 8%	5.84							
	Total	78.84							
6	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 25 L 5.31.1) Page No. 25/ Item No. 5.31.1/ PWD SR 2015-16								
		Sqm	Qty vide Item No 02				162.00		
			Deduct Availabe Qty Vide Item No 2				97.20		
	Basic Rate	614.00					64.80	663.12	42970.00
	Add Area Weightage 8%	49.12							
	Total	663.12							
7	Supplying and fixing precast reinforced concrete slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials								
		Sqm	1	120.00	0.90		108.00		
	Data Rates Approved						108.00	1600.00	172800.0
8	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100mtr. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications Specification No. KRBS 500-1 MORTH Chapter 5 Page No. 160/ Item No. 21.3/ PWD SR 2015-16								
		Sqm	1	1440.00	1.50		2160.00		
	Basic Rate	82.00					2160.00	88.56	191290
	Add Area Weightage 8%	6.56							
	Total	88.56							

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	SRB M400-1 For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/basalt material spreading in uniform layers with motor grader on prepared surface mixing by a mix in place method with rotawater at OMC and Compacting with vibratory roller to achieve the desired density, complete as per specifications by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material. Page No 155/ Item No. 20.6.1 PWD SR 2015-16								
		Cum	1	1440.00	1.50	0.10	216.00		
	Basic Rate	1353.00					216.00	1461.24	315628.00
	Add Area Weightage 8%	108.24							
	TOTAL	1461.24							
10	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. PWD SR 2015-16, P.No.154, I No.20.18)								
	Roads	Cum	1	1440.00	1.50	0.20	432.00	1713.96	740431.00
	Basic Rate	1587.00							
	Add Area Weightage 8%	126.96							
	Total	1713.96							
11	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2015-16, P.No.157, I No.21.6)								
		Sqm	1	1440.00	1.50		2160.00		
	Basic Rate	30.00					2160.00	32.40	69984.00
	Add Area Weightage 8%	2.40							
	Total	32.40							
12	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 Page No. 160/ Item No. 21.2/ PWD SR 2015-16								
		Sqm	1	1440.00	4.00		5760.00		
	Basic Rate	3.00					5760.00	3.24	18662.00
	Add Area Weightage 8%	0.24							
	Total	3.24							

Description of Item							Qty	Rate	Amount
RRB 500-7 Providing and applying tack coat on the prepared topped surfaces at 5kg per 10 sqm, heating bitumen in boiler with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 160/ Item No. 21.7/ PWD SR 2009-10									
	Sqm	1	1440.00	4.00			5760.00		
							5760.00	15.12	87091.00
Basic Rate							14.00		
Add Area Weightage 8%							1.12		
Total							15.12		
14 Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2015-16, P No.161. I No.21.11.6)									
	Cum	1	1440.00	1.50	0.05		108.00		
							108.00	6193.80	668930.00
Basic Rate							5735.00		
Add Area Weightage 8%							458.80		
Total							6193.80		
15 Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause no 500.9 complete in all respects complete as per specification no 509, using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-164, It 21.22.6) PWD SR 2015-16									
	Cum	1	1440.00	4.00	0.045		259.20		
							259.20	9822.60	254601.00
Basic Rate							9095.00		
Add Area Weightage 8%							727.60		
Total							9822.60		

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
posal of debris to the final place of disposal with all lead and lift in direction by the engineer in charge of the work, lead 4 Km a) basic rate for haulage of materials as per item No. 17.4/KSRRB M100-4.1 Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 133 Item No. 17.1 PWD SR 2015-16								
	Cum	Qty Vide Item No. 1				162.00	84.50	13689.00
Loading and Unloading		68.00						
Lead 4 KMs		10.24						
		78.24						
Area Weightage @ 8%		6.26						
Total		84.50						50000.00
17 Quality control Test Charges 1%								1261.00
18 Miscellaneous and Unforeseen Charges								
							Total	500000.00

(Rupees.Fifty Lakhs Only)

CERTIFICATE:-

- 1 The Work spot has been inspected and the work is found to be necessary
- 2 The Estimate is prepared as per the P.W.P & I.W.T.D SR-2015-16
- 3 The Provision made in estimate are adequate and essential.
- 4 This area comes under BBMP limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasaraballi Division
B.B.M.P. Bangalore

ನಂ. AC(DH) AS 104/2016-17
ದಿನಾಂಕ 13/05/16

ರೂ. 50.00 Lakhs (Rupees Fifty Lakhs only)

ಗೌರವಾನ್ವಿತವಾಗಿ ಈ ಅಂದಾಜು ಕೆಲಸವನ್ನು ಮಾಡುವುದಕ್ಕೆ ನಿರ್ದೇಶಿಸಿದೆ
ಆದರೂ ಅನುಮೋದನೆ
ಪ್ರಾ.ಪಂ. ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಖಲೆ ಸಂಖ್ಯೆ: 13/5/16

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ನಂ. CE02/RS/31/2016-17
ದಿನಾಂಕ 25-05-2016

ರೂ. 50.00 Lakhs 1- (Rupees fifty lakhs only)

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ದಾಖಲೆ ಸಂಖ್ಯೆ: 13/5/16

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಜಿ.ಜಿ.ಎಂ.ಸಿ.
ದಾಖಲೆ ಸಂಖ್ಯೆ: 13/5/16